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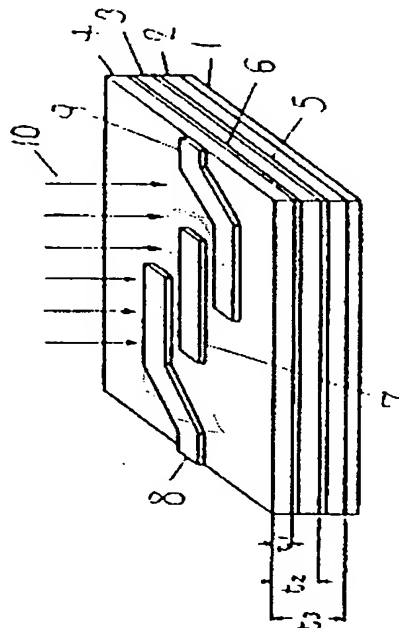
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TITLE : STRIP LINE RESONATOR



ABSTRACT : **PURPOSE:** To have plural resonance frequencies by alternately piling up dielectric substrates and superconductor films, forming a grounding conductor on the back surface of the dielectric substrate of a bottom stage, forming a microstrip line resonator on the surface of the dielectric substrate of a top stage in which a critical magnetic field strength is made small, and giving a direct current magnetic field.

CONSTITUTION: Three dielectric substrates 2, 3 and 4 and two superconductor films 5 and 6 are alternately piled up, a grounding conductor 1 is formed on the back surface of the dielectric substrate 2 of the bottom stage, a microstrip line resonator 7 is formed on the surface of the dielectric substrate 4 of the top stage, the superconductor films are formed so that the film of a side to be closer to the strip line resonator 7 can have the smaller critical magnetic field, the direct magnetic field is given to the film, and the strength of the direct current magnetic field is changed. In this way, the resonances frequency of the strip line resonator 7 can be made variable.

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